

REPORT OF MEASUREMENT (MICROWAVE OVEN TEST DATA SHEET B)

FCC ID : AEZM316 MODEL : EM-V5405SWT DATE : Nov. 16,2001
 Nominal Frequency : 2,450 MHz TESTED BY : T.SUGIOKA

DATA SUMMERY (FCC MEASUREMENT PROCEDURE MP-5)

SAFETY CHECK (at 5 cm) Load : 275 ml/center 0.07 mW/sq.cm
 FUNDAMENTAL Load : 1,000 ml/center 2,450 MHz

* Note : Location of load for the oven provided with the rotating tray is :
 Contiguous with the shelf circumference.

LIMIT = $25 \times \sqrt{\text{power}/500}$: 38.7 $\mu\text{V}/\text{m}$

RADIATION FIELD STRENGTH ($\mu\text{V}/\text{m}$ at 300 m)

	Load (ml)	Location of Load	Emission Frequency (MHz)	Meter Reading (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Filter Loss (dB)	Calcu. Factor (dB)	The Value of K ($E < 300\text{m} > = K * E < 3\text{m} >$)	Max. Field Strength ($\mu\text{V}/\text{m}$ at 300m)	Limit ($\mu\text{V}/\text{m}$ at 300m)
2nd Harmonic	300	Center	4,906	25.0	37.0	1.6	—	5	0.0100	26.9	38.7
2nd Harmonic	300	* Right/Front Corner	4,922	18.0	37.0	1.6	—	5	0.0100	12.0	38.7
2nd Harmonic	700	Center	4,933	21.0	37.0	1.6	—	5	0.0100	17.0	38.7
2nd Harmonic	700	* Right/Front Corner	4,930	14.0	37.0	1.6	—	5	0.0100	7.6	38.7
3rd Harmonic	300	Center	8,223	14.0	39.8	2.2	—	5	0.0100	11.2	38.7
3rd Harmonic	300	* Right/Front Corner	8,212	14.0	39.8	2.2	—	5	0.0100	11.2	38.7
3rd Harmonic	700	Center	8,325	17.0	39.8	2.2	—	5	0.0100	15.8	38.7
3rd Harmonic	700	* Right/Front Corner	8,336	17.0	39.8	2.2	—	5	0.0100	15.8	38.7
4th Harmonic	700	Center	9,845	14.0	39.8	2.7	—	5	0.0100	11.9	38.7
Spurious	700	Center	2,195	35.0	20.8	1.1	3	5	0.0056	9.8	38.7
Emission Sideband 2,400 MHz	700	Center	2,400	25.0	20.8	1.1	3	5	0.0061	3.4	38.7
Emission Sideband 2,500 MHz	700	Center	2,500	19.0	20.8	1.1	3	5	0.0064	1.8	38.7

Maximum Frequency Variation 1,000 ml load 2,461 to 2,464 M Hz. 1830 MHz - 2745 MHz $2.6230 * 10^{(-3)}$ * frequency : GHz) -0.0002
 Total Power Input to Oven 1,650 Watts 2745 MHz - 3660 MHz $2.1858 * 10^{(-3)}$ * frequency : GHz) $+0.0010$
 Power Development in dummy load (Thermal Method) 1,200 Watts (IEC705 Test Procedure) 3660 MHz - 4575 MHz $1.0929 * 10^{(-3)}$ * frequency : GHz) $+0.0050$
 Supply Voltage AC 120 V 60 Hz 4575 MHz and above 0.0100

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Note : In order to convert the measured field strength at 3meters to the field at 300 meters, comply with FCC/OST MP-5 Appendix C "4.6.1 Computations to determine compliance". A calculation factor of 5 dB, this figure is fixed by SANYO, is introduced for adjusting a tolerance in measurement.
A calculation factor of 5 dB should be added to "METER READING" as shown in SAMPLE CALCULATION below.

SAMPLE CALUCULATION

(1) 2nd Harmonic with 300 ml/Center load

$$\begin{aligned} \text{Field Strength at 300 m} &= 0.0100 \times 10^{(25.0 + 37 + 1.6 + 5) \div 20} \\ &= 26.9 \quad \text{uV/m} \end{aligned}$$

(2) Emission sideband 2.400 M Hz., 700 ml/Center load

$$\begin{aligned} \text{Field Strength at 300 m} &= 0.0061 \times 10^{(25.0 + 20.8 + 1.1 + 3 + 5) \div 20} \\ &= 3.4 \quad \text{uV/m} \end{aligned}$$

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- Measurement of Frequency VS Line Voltage Stability -

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Line Voltage Variation [Volt]	Frequency [GHz]	Deviation for ISM Frequency [MHz]	Limit [MHz]
96 (- 20%)	2.463	+13	± 50
120 (± 0%)	2.465	+15	± 50
150 (+ 25%)	2.464	+14	± 50

[Environment]

Temperature : 27.0 °CHumidity : 55.0 %

[Sample Calculation]

Frequency : 2.465 GHz

Deviation for ISM Frequencies Calculated as follows.

$$\underline{2.4650} - 2.4500 = \underline{+0.0150} \text{ [GHz]} = \underline{+15.0} \text{ [MHz]}$$

[Summary of Test Results]

Above data shows that the test device do / do not complies with the requirements.